



Crystal Oscillators > 4 to 30 MHz > HF Ultra Low Noise OCXO

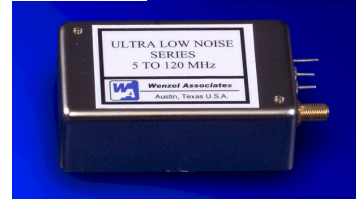
Features:

- Lowest Phase Noise Available
- Good Frequency Stability over Temperature
- Internal Voltage Regulator
- Very Low Aging Rate

Applications:

- Radar Systems
- Reference for Phase Noise Measurements
- Synthesizers

With a noise floor available to -176 dBc/Hz at 1 kHz offset, the Ultra Low Noise OCXO has the lowest phase noise available in the industry. Measurements at NIST in Boulder, Colorado confirm phase noise performance to -180 dBc at 20 kHz for selected 5 and 10 MHz oscillators. The unit is available with temperature stability to $\pm 1 \times 10^{-8}$ and an aging rate of 1×10^{-10} , which also makes these units among the most stable. The unit has an internal voltage regulator, which provides excellent line rejection. Please consult the factory if you need any specifications to be modified to better suit your application.



Typical Specifications					
Frequency (Specify)		4 to 30 MHz			
Frequency	5	10	MHz		
Output Level	+13			dBm	
Aging	$\pm 1 \times 10^{-9}$ to $\pm 1 \times 10^{-10}$ / day after 30 days				
Phase Noise		Std.	Prem.		
	10 Hz	-145	-150	-130 -132	dBc/Hz
	100 Hz	-165	-170	-158 -162	dBc/Hz
	1 kHz	-176	-176	-174 -175	dBc/Hz
	10 kHz	-176	-176	-174 -175	dBc/Hz
Temperature Stability (Specify)		$\pm 5 \times 10^{-8}$ to $\pm 2 \times 10^{-8}$			
Range A	0 to +50C				
Range B	0 to +65C				
Range C	0 to +70C				
Range D	-20 to +70C				
Range E	-40 to +70C				
Range F	-55 to +85C				
Electrical Tuning Range (Specify)		$\pm 2 \times 10^{-7}$ to $\pm 2 \times 10^{-6}$			
Tuning A	0 to +10 VDC				
Tuning B	± 5 VDC				
Supply Voltage (Specify)	+12 or +15		VDC		
Warm-up Power	5 for 5 Minutes		Watts		
Total Power typical	2.5 @ 25°C		Watts		
Crystal Type	SC				
Dimensions	44.4 x 74.7 x 25.4			mm	
	1.75 x 2.94 x 1			inches	
Connectors	SMA on side and solder pins on base				

